

IN THE CLAIMS

Please cancel claims 9, 13-23, 26-49, 54-55, and 59-70 without prejudice.

A complete set of pending claims as amended by this Preliminary Amendment are as follows:

1 1. (Original) A fiber optic module comprising:
2 a pull-actuator to disengage and withdraw the fiber optic
3 module from a cage assembly; and
4 one or more electro-optic transducers to convert optical
5 signals into electrical signals or electrical signals into
6 optical signals.

1 2. (Original) The fiber optic module of claim 1 wherein
2 the fiber optic module is a small form pluggable (SFP)
3 fiber optic module and the cage assembly is a small form
4 pluggable (SFP) cage assembly.

1 3. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator is activated to disengage and withdraw
3 the fiber optic module by a single backward pull action.

1 4. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator includes one or more grooves to
3 slideably engage the fiber optic module.

1 5. (Original) The fiber optic module of claim 1 wherein
2 the fiber optic module includes one or more grooves to
3 slideably engage the pull-actuator.

1 6. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator slides to disengage the fiber optic
3 module from the cage assembly.

1 7. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator includes,
3 one or more end-stops to withdraw the fiber optic
4 module as the pull-actuator is pulled.

1 8. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator includes
3 one or more end-stops to prevent the pull-actuator
4 from becoming disengaged from the fiber optic module as it is
5 pulled.

1 9. (Cancelled)

1 10. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator includes
3 an orientation indicator to indicate the fiber optic
4 module which the pull-actuator releases.

1 11. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator is formed of metal.

1 12. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator is formed of a plastic.

1 13-23. (Cancelled)

1 24. (Original) The fiber optic module of claim 1 wherein
2 the pull-actuator permits arranging multiple fiber optic
3 modules in a belly-to-belly configuration without obstructing
4 adjacent pull-actuators.

1 25. (Original) The fiber optic module of claim 24 wherein
2 with the belly-to-belly configuration, two pull-actuators are
3 located in proximity to each other along a common surface
4 between two fiber optic modules.

1 26-49. (Cancelled)

1 50. (Original) A fiber optic module comprising:
2 means for converting optical signals into electrical
3 signals or electrical signals into optical signals; and
4 means for disengaging the fiber optic module from a cage
5 assembly by pulling a pull-actuator.

1 51. (Original) The fiber optic module of claim 50 further
2 comprising:
3 means for slideably engaging the means for disengaging
4 the fiber optic module.

1 52. (Original) The fiber optic module of claim 50 wherein

2 the means for disengaging also provides a means for
3 withdrawing.

1 53. (Original) The fiber optic module of claim 50 further
2 comprising:

3 means for withdrawing the fiber optic module.

1 54-55. (Cancelled)

1 56. (Original) The fiber optic module of claim 50 further
2 comprising:

3 means for indicating the fiber optic module which the
4 means for disengaging releases.

1 57. (Original) A method for disengaging and withdrawing a
2 fiber optic module from a cage assembly comprising:

3 pulling a pull-actuator to disengage the fiber optic
4 module from the cage assembly; and

5 continuing to pull on the pull-actuator to withdraw the
6 fiber optic module from the cage assembly.

1 58. (Original) The method of claim 57 comprising:

2 releasing the pull-actuator if the fiber optic module has
3 been released from the cage assembly.

1 59-70. (Cancelled)

1 71. (Original) A configuration of fiber optic modules

2 having one or more electro-optic transducers, the

3 configuration comprising:

4 a printed circuit board having a first side and a second
5 side;

6 a first cage coupled to the first side of the printed
7 circuit board to receive a first fiber optic module; and

8 a second cage coupled to the second side of the printed
9 circuit board to receive a second fiber optic module, the
10 second cage aligned in parallel to the first cage such that a
11 first belly of the first fiber optic module is adjacent a
12 second belly of the second fiber optic module.

1 72. (Original) The configuration of claim 71 wherein,
2 the first belly of the first fiber optic module being
3 adjacent to the second belly of the second fiber optic module
4 provides for increased density.

1 73. (Original) The configuration of claim 71, further
2 comprising:
3 the first fiber optic module having a first pull-actuator
4 with a first orientation indicator;
5 the second fiber optic module having a second pull-
6 actuator with a second orientation indicator; and
7 the first pull-actuator and the second pull-actuator each
8 having a pull-tab offset from each other when the first belly
9 is adjacent the second belly.

1 74. (Original) The configuration of claim 73 wherein,
2 the first orientation indicator indicates the first fiber
3 optic module and the second orientation indicator indicates
4 the second fiber optic module.

1 75. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull button.

1 76. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull knob.

1 77. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull hook.

1 78. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull ring.

1 79. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull square.

1 80. (Original) The configuration of claim 73 wherein,
2 the pull-tab is a pull mechanism.